

Title (en)
HIGH FLOW DIRECT ACTING VALVE

Title (de)
DIREKTWIRKENDES HOCHDURCHFLUSSVENTIL

Title (fr)
VALVE À ACTION DIRECTE À HAUT DÉBIT

Publication
EP 3463935 B1 20200708 (EN)

Application
EP 17749768 A 20170711

Priority
• US 201662370051 P 20160802
• US 2017041474 W 20170711

Abstract (en)
[origin: WO2018026472A1] A novel valve that may include a self-energizing seal member with a lobe extending toward a valve seat surface, a radially outwardly extending skirt, an axially extending nose, solenoid-operated three-position valve member, a pressure sense port, and/or a pressure pick-up opening. The features of the valve may allow the valve to operate at higher flow rates while requiring less energy to operate, may have a wider pressure and/or temperature operation range, may allow bidirectional fluid flow, may be less expensive to manufacture, and/or may enable a simple and compact assembly of the valve with a pressure sensor. The self-energizing seal member may include a base portion and the lobe extending may extend at an angle from the base portion relative to a longitudinal axis. The lobe may reduce energy requirements to operate the valve compared to larger sealing contact area seals. For example, the lobe may have a small sealing area to allow the valve to be better balanced.

IPC 8 full level
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